

IN THE CLAIMS:

Please cancel claims 3 and 8 without prejudice to or disclaimer of the subject matter recited therein.

Please amend claims 1 and 2 as follows:

CURRENT LISTING OF CLAIMS

Claim 1. (Currently Amended) A method for data security with lock in a hard disk and a solid state disk, comprising following steps:

~~a procedure for partitioning a disk drive into a plurality of disk zones; including at least one zone selected from a group consisting of a user zone, a ROM zone, and a protect zone;~~

~~offering providing a plurality of registers for indicating a record of a size of the respective partitioned disk zone; and each of the plurality of disk zones;~~

~~offering a procedure of utilizing a mathematical operation for treating a user input data and a register data; data; and~~

~~assigning one of two passwords to each of the ROM zone and the protect zone utilizing a password operation mode utilizing the mathematical operation with the user input data and the register data.~~

Claim 2. (Currently Amended) The method for data security with lock in a hard disk and a solid state disk according to claim 1, wherein the registers are a R_index register, a P_index register and a ~~LBA_maxupper~~ LBA_max register for indicating records of three disk zone sizes.

Claim 3. (Canceled)

Claim 4. (Original) The method for data security with lock in a hard disk and a solid state disk according to claim 2, wherein when the register $R_index \geq 1$ and the register $LBA_max > \text{the register } P_index > \text{the register } R_index$, the disk drive 1 is divided into three zones, the disk drive is divided into the user zone, the ROM zone and the protect zone.

Claim 5. (Original) The method for data security with lock in a hard disk and a solid state disk according to claim 2, wherein when the register $R_index \geq 1$ and the register $LBA_max = \text{the register } P_index > \text{the register } R_index$, the disk drive is divided into two zones, the user zone and the ROM zone.

Claim 6. (Original) The method for data security with lock in a hard disk and a solid state disk according to claim 2, wherein when the register $R_index \geq 1$ and the register $LBA_max > \text{the register } P_index = \text{the register } R_index$, the disk drive 1 is divided into two zones, the user zone and the protect zone.

Claim 7. (Original) The method for data security with lock in a hard disk and a solid state disk according to claim 2, wherein when the register $R_index \geq 1$ and the register $LBA_max = \text{the register } P_index = \text{the register } R_index$, the disk drive is divided into the user zone.

Claim 8. (Canceled)